-I- (WPAT) ACCESSION NUMBER XRPX TITLE

DERWENT CLASSES
PATENT ASSIGNEE
INVENTORS
PRIORITY
NUMBERS
PUBLICATION DETAILS

APPLICATION DETAILS MAIN INT'L CLASS ABSTRACT 97-503485/47 N97-419697

Water based heat bank and fusion sait calorifier - has heat energy circulated around heat storage vessel by convective currents and insulated baffle which directs and influences convective current flow 0.74

(MCCO/) MCCONNELL D E, (TRAN/) TRANTER S R MCCONNELL DE, TRANTER SR 96.03.26 96AU-048290 | patent(s) | | country(s)

18p

F24H-007/02

96AU-048290 96.03.26

F24H-007/02 AU9648290 A

The water based heat bank and fusion salt calorifier comprises a heat bank container which contains a volume of water based fluid containing varying amounts of heat energy derived from a source. The heat energy can be circulated around the heat storage vessel by convective currents and an insulated baffle which directs and influences the convective current flow which forces the heated water to thermal layer at the highest possible point within the heat bank container.

The fusion salt calorifier is immersed within the water based fluid at the highest possible point for the purpose of heat exchanging from the heated water based fluid to a clean water supply held within the confines of the fusion salt calorifier.

confines of the fusion salt calorifier.

ADVANTAGE - Less expensive and more thermally efficient. (Dwg.1/1)

WPHASHPI.GIF

IMAGE FILENAME

I- (WPAI) ACCESSION NUMBER XRPX TITLE

DERWENT CLASSES
PATENT ASSIGNEE
INVENTORS
PRIORITY
NUMBERS
PUBLICATION DETAILS
APPLICATION DETAILS
SECONDARY INT'L CLASS.
ABSTRACT

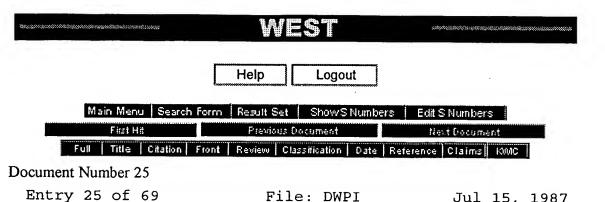
90-050185/07 N90-038470 Periodic action heat drive - has thermal insulation baffle with segment cavities separating heating and cooling zones. cavities are symmetrical w r t. horizontal axle Q55 (KIPO) KIEV POLY ANTOSHKO YUV, BEZRODNYI MK, TSYNKOV VE 87.04.10 87SU-4226951 I patent(s) I country(s) SU1476174 A 89 Ø4 3Ø : (9ØØ7) 2p 87SU-4226951 87 Ø4 IØ FØ3G-ØØ7/Ø6 SU1476174 A

The thermal insulation baffle (4) with segment cavities (5) placed symmetrically w.r.t. the horizontal axle, envelopes part of the vapour duct (I) which is partially filled with low boiling point liq (2) The baffle separates the heating and cooling zones. The packing linings (6) are placed at the vapour duct ends and on the duct boundary which is constantly in the cooling zone. The duct is made as an open toroid whose symmetry axis coincides with the axle (3). The duct ends thermodynamically interact with the zones. Part of the duct which is constantly in the cooling zone and the duct ends are thermally insulated. USE - For heat energy conversation to mechanical energy Bul 16/30 4 89 (2pp Dwg No.1/1) WPAIŽQII.GIF

IMAGE FILENAME

SS 2?

Jul 15, 1987



DERWENT-ACC-NO: 1988-055348

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TITLE: Tank for heat treatment of short cylindrical

items - has thermal insulation baffle dividing tank into

hardening and tempering compartments

ABTX:

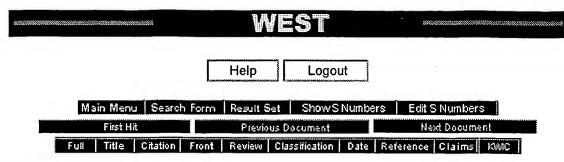
The tank has a thermal insulation baffle (4) forming hardening and tempering compartments.

TTX:

TANK HEAT TREAT SHORT CYLINDER ITEM THERMAL INSULATE BAFFLE DIVIDE TANK HARDEN TEMPER COMPARTMENT

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Document Number 5

Entry 5 of 5

File: DWPI

Oct 2, 1997

DERWENT-ACC-NO: 1997-503485

DERWENT-WEEK: 199747

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TITLE: Water based heat bank and fusion salt calorifier - has heat energy circulated around heat storage vessel by convective currents and insulated baffle which directs and influences convective current flow

INVENTOR: MCCONNELL, D E; TRANTER, S R

PATENT-ASSIGNEE: ; MCCONNELL D E[; MCCOI], TRANTER S R E[TRANI]

PRIORITY-DATA:

1996AU-0048290

March 26, 1996

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC
AU 9648290 A October 2, 1997 N/A 018 F24H007/02

APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO APPL-NO AU 9648290A March 26, 1996 1996AU-0048290 N/A

INT-CL (IPC): F24 H 7/02

ABSTRACTED-PUB-NO: AU 9648290A

BASIC-ABSTRACT:

The water based heat bank and fusion salt calorifier comprises a heat bank container which contains a volume of water based fluid containing varying amounts of heat energy derived from a source. The heat energy can be circulated around the heat storage vessel by convective currents and an insulated baffle which directs and influences the convective current flow which forces the heated water to thermal layer at the highest possible point within the heat bank container.

The fusion salt calorifier is immersed within the water based fluid at the highest possible point for the purpose of heat exchanging from the heated water based fluid to a clean water supply held within the confines of the fusion salt calorifier.

10/11/00 10 11 13/

ADVANTAGE - Less expensive and more thermally efficient.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS:

WATER BASED HEAT BANK FUSE SALT CALORIFIER HEAT ENERGY CIRCULATE HEAT STORAGE VESSEL CONVECTION CURRENT INSULATE BAFFLE DIRECT INFLUENCE CONVECTION CURRENT FLOW

DERWENT-CLASS: Q74

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-419697

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Full Title Citation Front Review Classification Date Reference Claims KWIC.

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